

Edmond Shrem and Sam Stolarov SE practice

Who uses it: "Jews, and really shtark goyim" - Sam, 2024

Why does he use it: Because he wants to understand the word better. In knowing where the individual word appears, he can know its connotations. Also gematria

Function: user inputs hebrew word, program spits out all of the places where this word appears in tanakh, as well as its gematria and number of appearances.

If the user wishes, they can pull up any of the specific pessukim that a word appears in

Workflow: he enters the word. He also toggles whether or not he wants specifically that spelling, or also instances of related words (same שורש).

Part 2

The data will come in two main components.

1. Word class, which represents a specific word which appears in Tanakh. It will have the following instance variables:
 - A string which holds the actual word
 - An integer which holds the gematria (this will be calculated upon construction of the object)
 - An integer which represents how many times the word appears.
 - An array of other word objects which are considered "variants" of the given word aka words of the same שורש.
 - An array of locations (represented by strings) where this word appears
2. A passuq class, which holds an array of word objects and is referenced by a string such as EX2:2.

A separate class, which will act as the central one, will contain a trie of all word objects and an array of pessuqim. When the user searches for a word, the trie will be searched and the relevant data will be returned (depending on what the user wants)

The pessuqim are stored in an array so that they can be accessed easily. When the words appearances are returned, a bit of math turns the code EX2:2 into the array index of that passuk.